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OM protein - protein search, using sw model

Run on: February 16, 2005, 16:26:39 ; Search time 55.5308 Seconds
(without alignments)
2235.960 Million cell updates/sec

Title: US-10-003-356-5
Perfect score: 1986
Sequence: 1 LPHSVCTDVCPPGTGRGFVQ.....TVSTVLDDRVLVNCPLKLQ 380

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1376875 seqs, 326749119 residues

Total number of hits satisfying chosen parameters: 1376875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
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19: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
20: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	1986	100.0	380	13	US-10-003-356-5
2	1986	100.0	927	13	US-10-003-356-8
3	1906	96.0	755	15	US-10-292-798-450
4	1749	88.1	365	14	US-10-017-161-510
5	1749	88.1	365	15	US-10-343-650A-52
6	1444	72.7	912	15	US-10-436-715-84
7	796.5	40.1	835	14	US-10-151-208-7
8	787.5	39.7	848	15	US-10-436-715-34
9	787.5	39.7	848	15	US-10-436-715-78
10	783.5	39.5	851	14	US-10-151-208-12
11	771.5	38.8	856	14	US-10-151-208-8
12	769.5	38.7	844	15	US-10-436-715-33
13	769.5	38.7	844	15	US-10-436-715-77

14	760.5	38.3	854	14	US-10-151-208-10	Sequence 10, Appl
15	753.5	37.9	880	15	US-10-436-715-31	Sequence 31, Appl
16	753.5	37.9	880	15	US-10-436-715-81	Sequence 81, Appl
17	751	37.8	875	15	US-10-436-715-32	Sequence 32, Appl
18	751	37.8	875	15	US-10-436-715-83	Sequence 83, Appl
19	747	37.6	856	15	US-10-436-715-30	Sequence 30, Appl
20	747	37.6	856	15	US-10-436-715-79	Sequence 79, Appl
21	736.5	37.1	1027	14	US-10-125-792-2	Sequence 2, Appl
22	736.5	37.1	1027	14	US-10-125-778-2	Sequence 2, Appl
23	736.5	37.1	1027	14	US-10-268-051-8	Sequence 8, Appl
24	736.5	37.1	1027	14	US-10-125-772-2	Sequence 2, Appl
25	736.5	37.1	1027	14	US-10-016-496-2	Sequence 2, Appl
26	736.5	37.1	1027	15	US-10-410-885-2	Sequence 2, Appl
27	722	36.4	864	15	US-10-436-715-29	Sequence 29, Appl
28	722	36.4	864	15	US-10-436-715-82	Sequence 82, Appl
29	714.5	36.0	1002	15	US-10-393-347-3	Sequence 3, Appl
30	714.5	36.0	1079	14	US-10-159-339-9	Sequence 9, Appl
31	714.5	36.0	1079	15	US-10-436-715-23	Sequence 23, Appl
32	714.5	36.0	1079	15	US-10-436-715-24	Sequence 24, Appl
33	714.5	36.0	1079	15	US-10-436-715-72	Sequence 72, Appl
34	714.5	36.0	1079	15	US-10-436-715-73	Sequence 73, Appl
35	714.5	36.0	1079	15	US-10-673-888-2	Sequence 2, Appl
36	711.5	35.8	1078	13	US-10-002-854-2	Sequence 118, App
37	711.5	35.8	1078	14	US-10-225-567A-118	Sequence 8, Appl
38	711.5	35.8	1078	14	US-10-159-339-8	Sequence 22, Appl
39	711.5	35.8	1078	15	US-10-436-715-22	Sequence 74, Appl
40	711.5	35.8	1078	15	US-10-436-715-74	Sequence 3, Appl
41	711.5	35.8	1078	15	US-10-416-588-3	Sequence 171, App
42	711.5	35.8	1078	16	US-10-408-765A-171	Sequence 1, Appl
43	711.5	35.8	1088	15	US-10-673-888-1	Sequence 2, Appl
44	709.5	35.7	1078	9	US-09-727-205-2	Sequence 10, Appl
45	709.5	35.7	1085	14	US-10-159-339-10	

ALIGNMENTS

RESULT 1
US-10-003-356-5
; Sequence 5, Application US/10003356
; Publication No. US20020146418A1
; GENERAL INFORMATION:
; APPLICANT: Lok, Si
; APPLICANT: Holloway, James L.
; TITLE OF INVENTION: Human V2 Vomeronasal Receptor
; FILE REFERENCE: 00-107
; CURRENT APPLICATION NUMBER: US/10/003,356
; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/252,373
; PRIOR FILING DATE: 2000-11-21
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-003-356-5

Query Match	100.0%	Score 1986;	DB 13;	Length 380;
Best Local Similarity	100.0%;	Pred. No. 2.7e-171;		
Matches 380;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	LPHSVCTDVCPPGTGRGFVQREIPCCFDSIPCADGHVSRKPGERECEQGEDYWSNAQKS	60	
Db	1	LPHSVCTDVCPPGTGRGFVQREIPCCFDSIPCADGHVSRKPGERECEQGEDYWSNAQKS	60	
Qy	61	ECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVYVIHRHTPLVNASDWQLGFLIQV	120	
Db	61	ECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVYVIHRHTPLVNASDWQLGFLIQV	120	
Qy	121	SLIIMLLSSMLFIDKPHNWSMAGQVTIALGFSCLSLGKTSIPLAYRISKSTQLT	180	
Db	121	SLIIMLLSSMLFIDKPHNWSMAGQVTIALGFSCLSLGKTSIPLAYRISKSTQLT	180	

QY181SMHPLYRKIIIVLSVLAIEGICTAYLILEPPMVYKKNMESQNTKIILGCNEISIEFLYSMP240

Db181SMHPLYRKIIIVLSVLAIEGICTAYLILEPPMVYKKNMESQNTKIILGCNEISIEFLYSMP240

QY241GIDAFALLCFLTTTFVARQLPDNYYEGKCITFGMLVFFIIMSFVPVYLSKTKGFKMAVE300

Db241GIDAFALLCFLTTTFVARQLPDNYYEGKCITFGMLVFFIIMSFVPVYLSKTKGFKMAVE300

QY301IFAILASSHGLLGCIFAPKCLIIILLRPERNTSEIVCGRVSTTDNCIQLTSAFVSSELNNT360

Db301IFAILASSHGLLGCIFAPKCLIIILLRPERNTSEIVCGRVSTTDNCIQLTSAFVSSELNNT360

QY361TVSTVLDLDRVLIYMCPLKLQ380

Db361TVSTVLDLDRVLIYMCPLKLQ380

RESULT 2

US-10-003-356-8

; Sequence 8, Application US/10003356

; Publication No. US20020146418A1

; GENERAL INFORMATION:

; APPLICANT: Lok, Si

; APPLICANT: Holloway, James L.

; TITLE OF INVENTION: Human V2 Vomeronasal Receptor

; FILE REFERENCE: 00-107

; CURRENT APPLICATION NUMBER: US/10/003,356

; CURRENT FILING DATE: 2001-11-15

; PRIOR APPLICATION NUMBER: 60/252,373

; PRIOR FILING DATE: 2000-11-21

; NUMBER OF SEQ ID NOS: 10

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 8

; LENGTH: 927

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Chimeric receptor.

US-10-003-356-8

Query Match100.0%; Score 1986; DB 13; Length 927;

Best Local Similarity100.0%; Pred. No. 8.3e-171;

Matches 380; Conservative0; Mismatches0; Indels0; Gaps0;

QY1LPHSVCTDVCPPGTGRGFVQREPICCFDSIPCADGHVSRKPGERECEQCCEGYWSNAQKS60

Db548LPHSVCTDVCPPGTGRGFVQREPICCFDSIPCADGHVSRKPGERECEQCCEGYWSNAQKS607

QY61ECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVYVHRHTPLVNASDWQLGFLIQV120

Db608ECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVYVHRHTPLVNASDWQLGFLIQV667

QY121SLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSCLSLGKTSSSLFLAYRISKSTQLT180

Db668SLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSCLSLGKTSSSLFLAYRISKSTQLT727

QY181SMHPLYRKIIIVLSVLAIEGICTAYLILEPPMVYKKNMESQNTKIILGCNEISIEFLYSMP240

Db728SMHPLYRKIIIVLSVLAIEGICTAYLILEPPMVYKKNMESQNTKIILGCNEISIEFLYSMP787

QY241GIDAFALLCFLTTTFVARQLPDNYYEGKCITFGMLVFFIIMSFVPVYLSKTKGFKMAVE300

Db788GIDAFALLCFLTTTFVARQLPDNYYEGKCITFGMLVFFIIMSFVPVYLSKTKGFKMAVE847

QY301IFAILASSHGLLGCIFAPKCLIIILLRPERNTSEIVCGRVSTTDNCIQLTSAFVSSELNNT360

Db848IFAILASSHGLLGCIFAPKCLIIILLRPERNTSEIVCGRVSTTDNCIQLTSAFVSSELNNT907

QY361TVSTVLDLDRVLIYMCPLKLQ380

Db908TVSTVLDLDRVLIYMCPLKLQ927

RESULT 3

US-10-292-798-450

; Sequence 450, Application US/10292798

; Publication No. US20030235833A1

; GENERAL INFORMATION:

; APPLICANT: SUWA, MAKIKO

; APPLICANT: ASAI, KIYOSHI

; APPLICANT: AKIYAMA, YUTAKA

; APPLICANT: ABURATANI, HIROYUKI

; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS

; FILE REFERENCE: 084335/166

; CURRENT APPLICATION NUMBER: US/10/292,798

; CURRENT FILING DATE: 2002-11-13

; PRIOR APPLICATION NUMBER: 10/017,161

; PRIOR FILING DATE: 2001-12-18

; PRIOR APPLICATION NUMBER: JP 2001-246789

; NUMBER OF SEQ ID NOS: 2070

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 450

; LENGTH: 755

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-292-798-450

Query Match96.0%; Score 1906; DB 15; Length 755;

Best Local Similarity99.7%; Pred. No. 1.1e-163;

Matches 367; Conservative0; Mismatches1; Indels0; Gaps0;

QY13GTGRGFVQREPICCFDSIPCADGHVSRKPGERECEQCCEGYWSNAQKSECVLKEVEYLAY72

Db388GLGRGFVQREPICCFDSIPCADGHVSRKPGERECEQCCEGYWSNAQKSECVLKEVEYLAY447

QY73DEALGFTLVILSVFGAFVVLAVTAVYVHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLF132

Db448DEALGFTLVILSVFGAFVVLAVTAVYVHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLF507

QY133IDKPHNWSMAGQVTLALGFSCLSLGKTSSSLFLAYRISKSTQLTSMHPLYRKIIIVL192

Db508IDKPHNWSMAGQVTLALGFSCLSLGKTSSSLFLAYRISKSTQLTSMHPLYRKIIIVL567

QY193ISVLAIEGICTAYLILEPPMVYKKNMESQNTKIILGCNEISIEFLYSMPGIDAFALLCFL252

Db568ISVLAIEGICTAYLILEPPMVYKKNMESQNTKIILGCNEISIEFLYSMPGIDAFALLCFL627

QY253TTFVARQLPDNYYEGKCITFGMLVFFIIMSFVPVYLSKTKGFKMAVEIFAILASSHGLL312

Db628TTFVARQLPDNYYEGKCITFGMLVFFIIMSFVPVYLSKTKGFKMAVEIFAILASSHGLL687

QY313GCIFAPKCLIIILLRPERNTSEIVCGRVSTTDNCIQLTSAFVSSELNNTTVSTVLDLDRVLI372

Db688GCIFAPKCLIIILLRPERNTSEIVCGRVSTTDNCIQLTSAFVSSELNNTTVSTVLDLDRVLI747

QY373YMCPLKLQ380

Db748YMCPLKLQ755

RESULT 4

US-10-017-161-510

; Sequence 510, Application US/10017161

; Publication No. US20030143668A1

; GENERAL INFORMATION:

; APPLICANT: SUWA, MAKIKO

; APPLICANT: ASAI, KIYOSHI

; APPLICANT: AKIYAMA, YUTAKA

; APPLICANT: ABURATANI, HIROYUKI

; TITLE OF INVENTION: NOVEL G PROTEIN- COUPLED RECEPTORS

; FILE REFERENCE: 084335/0152

; CURRENT APPLICATION NUMBER: US/10/017,161

; CURRENT FILING DATE: 2002-12-18

; PRIOR APPLICATION NUMBER: JP 2001/246789

US-10-017-161-510

Query Match100.0%; Score 1986; DB 13; Length 927;

Best Local Similarity100.0%; Pred. No. 8.3e-171;

Matches 380; Conservative0; Mismatches0; Indels0; Gaps0;

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; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 510
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-017-161-510

Query Match      88.1%; Score 1749; DB 14; Length 365;
Best Local Similarity 99.1%; Pred. No. 7.4e-150;
Matches 341; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 37 VSRKPGERECEQC GEDYWSNAQSECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTA 96
Db 22 VLRSIGERECEQC GEDYWSNAQSECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTA 81

QY 97 VYVIHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCL 156
Db 82 VYVIHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCL 141

QY 157 SCLLGKTSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKN 216
Db 142 SCLLGKTSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKN 201

QY 217 MESQNTKIILGCNEISIEFLYSMFGIDAFLLALCFLTTFVARQLPDNYYEGKCITFGMLV 276
Db 202 MESQNTKIILGCNEISIEFLYSMFGIDAFLLALCFLTTFVARQLPDNYYEGKCITFGMLV 261

QY 277 FPIIWMSPVPVYLSTKGKFKMAVEIFAILASSHGLLGCI FAPKCLII LLRPERNTSEIVC 336
Db 262 FPIIWMSPVPVYLSTKGKFKMAVEIFAILASSHGLLGCI FAPKCLII LLRPERNTSEIVC 321

QY 337 GRVSTTDNCIQLTSAFVSSELNNTTVSTVLD DRVLIYMCPLKLQ 380
Db 322 GRVSTTDNCIQLTSAFVSSELNNTTVSTVLD DRVLIYMCPLKLQ 365

QY 37 VSRKPGERECEQC GEDYWSNAQSECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTA 96
Db 22 VLRSIGERECEQC GEDYWSNAQSECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTA 81

QY 97 VYVIHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCL 156
Db 82 VYVIHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCL 141

QY 157 SCLLGKTSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKN 216
Db 142 SCLLGKTSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKN 201

QY 217 MESQNTKIILGCNEISIEFLYSMFGIDAFLLALCFLTTFVARQLPDNYYEGKCITFGMLV 276
Db 202 MESQNTKIILGCNEISIEFLYSMFGIDAFLLALCFLTTFVARQLPDNYYEGKCITFGMLV 261

QY 277 FPIIWMSPVPVYLSTKGKFKMAVEIFAILASSHGLLGCI FAPKCLII LLRPERNTSEIVC 336
Db 262 FPIIWMSPVPVYLSTKGKFKMAVEIFAILASSHGLLGCI FAPKCLII LLRPERNTSEIVC 321

QY 337 GRVSTTDNCIQLTSAFVSSELNNTTVSTVLD DRVLIYMCPLKLQ 380
Db 322 GRVSTTDNCIQLTSAFVSSELNNTTVSTVLD DRVLIYMCPLKLQ 365

RESULT 5
US-10-343-650A-52
; Sequence 52, Application US/10343650A
; Publication No. US20040067499A1
; GENERAL INFORMATION:
; APPLICANT: HAGA, TATSUYA
; TITLE OF INVENTION: NOVEL G-PROTEIN COUPLED RECEPTOR
; FILE REFERENCE: 31671-186347
; CURRENT APPLICATION NUMBER: US/10/343,650A
; CURRENT FILING DATE: 2003-07-21
; PRIOR APPLICATION NUMBER: JP 2000/237818
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: JP 2001/34434
; PRIOR FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 694
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 52
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-343-650A-52

Query Match      88.1%; Score 1749; DB 15; Length 365;
Best Local Similarity 99.1%; Pred. No. 7.4e-150;
Matches 341; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 37 VSRKPGERECEQC GEDYWSNAQSECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTA 96
Db 22 VLRSIGERECEQC GEDYWSNAQSECVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTA 81

QY 97 VYVIHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCL 156
Db 82 VYVIHRHTPLVNASDWQLGFLIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCL 141

QY 157 SCLLGKTSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKN 216
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Db 142 SCLLGKTSFLAYRISKSTQLTSMHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKN 201
QY 217 MESQNTKIILGCNEISIEFLYSMFGIDAFLLALCFLTTFVARQLPDNYYEGKCITFGMLV 276
Db 202 MESQNTKIILGCNEISIEFLYSMFGIDAFLLALCFLTTFVARQLPDNYYEGKCITFGMLV 261
QY 277 FPIIWMSPVPVYLSTKGKFKMAVEIFAILASSHGLLGCI FAPKCLII LLRPERNTSEIVC 336
Db 262 FPIIWMSPVPVYLSTKGKFKMAVEIFAILASSHGLLGCI FAPKCLII LLRPERNTSEIVC 321
QY 337 GRVSTTDNCIQLTSAFVSSELNNTTVSTVLD DRVLIYMCPLKLQ 380
Db 322 GRVSTTDNCIQLTSAFVSSELNNTTVSTVLD DRVLIYMCPLKLQ 365

RESULT 6
US-10-436-715-84
; Sequence 84, Application US/10436715
; Publication No. US20040018976A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING NOVEL HUMAN G-PROTEIN COUPLED RECEPTORS,
; TITLE OF INVENTION: AND SPLICE VARIANTS THEREOF
; FILE REFERENCE: D0262 NP
; CURRENT APPLICATION NUMBER: US/10/436,715
; CURRENT FILING DATE: 2003-05-13
; PRIOR APPLICATION NUMBER: U.S. 60/380,336
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 471
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 84
; LENGTH: 912
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-436-715-84
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Query Match      72.7%; Score 1444; DB 15; Length 912;
Best Local Similarity 74.7%; Pred. No. 9.8e-122;
Matches 274; Conservative 37; Mismatches 56; Indels 0; Gaps 0;

QY 2 PHSVCTDVCPPGTGRGFVQREPICCFDSIPCADGHVSRKPGERECEQC GEDYWSNAQSE 61
Db 546 PDSFCTQVCPPGTRKGIQCGPICCCFDCIPCADGVYSEKSGQRECDPCGEDDWSNAGSK 605
QY 62 CVLKEVEYLAYDEALGFTLVLSVFGAFVVLAVTAVVYIHRHTPLVNASDWQLGFLIQVS 121
Db 606 CVPKLVEFLAYGEALGFTLVLSIFGALVVLAVTVVYIHRHTPLVKANDRELSFLIQMS 665
QY 122 LIIMLLSSMLFIDKPHNWSMAGQVTLALGFSLCLSLGKTSSFLAYRISKSTQLTLS 181
Db 666 LVITVLSLLFIGKPCNWSMARGITLALGFCLCLSSILGKTISLFFAYRISVSKTRLIS 725
QY 182 MHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKNMESQNTKIILGCNEISIEFLYSMFG 241
Db 726 MHPIFRKLIIVLCVWGEIGVCAAYLVEPPRMFKNIEIQNVKIIFECNEGSVEFLCSIFG 785
QY 242 IDAFLLALCFLTTFVARQLPDNYYEGKCITFGMLVFFIWMSPVPVYLSTKGKFKMAVEI 301
Db 786 FDLVRLALCFLTTFVARQLPDNYYEGKCITFGMLVFFIWMSPVPVYLSTKGKFKMAVEI 845
QY 302 FAILASSHGLLGCI FAPKCLII LLRPERNTSEIVCGRVSTTDNCIQLTSAFVSSELNNTT 361
Db 846 FAILASSYGLLGCLFLPKCFIILLRPKRNTDETVGGRVPTVDRSIRQLTSASVSSELNSTT 905
QY 362 VSTVLD 368
Db 906 VSTVLD 912

RESULT 7
US-10-151-208-7
; Sequence 7, Application US/10151208
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; Publication No. US20030105285A1
; GENERAL INFORMATION:
; APPLICANT: Ngai, John
; APPLICANT: Specia, David J.
; APPLICANT: Lin, David M.
; APPLICANT: Isacoff, Ehud Y.
; APPLICANT: Dittman, Andrew H.
; APPLICANT: Fan, Jinhong
; TITLE OF INVENTION: Odorant Receptors
; FILE REFERENCE: B99-038-2
; CURRENT APPLICATION NUMBER: US/10/151,208
; CURRENT FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: US/09/619,353
; PRIOR FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 60/144,766
; PRIOR FILING DATE: 1999-07-20
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 835
; TYPE: PRT
; ORGANISM: Carassius auratus
US-10-151-208-7

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Query Match	40.1%	Score	796.5;	DB	14;	Length	835;
Best Local Similarity	43.5%	Pred. No.	3.8e-63;				
Matches	147;	Conservative	72;	Mismatches	118;	Indels	1;
Qy	2	PHSVCTDVCPPGTGRGFVQREPICCFDSIPCADGHVSRKPGERECEQCAGEDYWSNAQKSE	61				
Db	496	PNSVCSSESLPGTRKAAQGRPVCCYDCIPCAEGEISNETSDNNCKQCPREYWSNAEKT	555				
Qy	62	CVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVVIHRHTPLVNASDWQLGFLIQVS	121				
Db	556	CVLKAVEFLSFTEVMGIVLAFPSLFGAGLTALVAILFYRMRDTPIVKANNSLSFLLPS	615				
Qy	122	LIIMLLSSMLFIDKPHNWSMAGQVTLALGFSCLCLSGTSSLFLAYRISKSTQLTS	181				
Db	616	LTLCFLCSLTFIQGNWNSCMLRHTAFGITVLCISCVLGKTIIVLMAFKATLPGNSVMK	675				
Qy	182	-MHPLYRKIIIVLISVLAIEIGICTAYLILEPMPVYKNMESQNTKIIILGCNEISIEFLYSMF	240				
Db	676	WFGPAQORLSVLALTFIQILICVLWLTISPPFPYKNMKYFKEKIIIECSLGSSISFWAVL	735				
Qy	241	GIDAFALALLCFLTTFVARQLPDNYYEGKCITFGMLVFFIINWSFVPVYLSTGKFKMAVE	300				
Db	736	GYIGLLAVLCFILAFIARTLPDNFNFAKFIITFSMLIFCAVWITFIPAYVSSPGKYTVAVE	795				
Qy	301	IPAILASSHGLGCIAPKCLIIILLRPERNTSEIVCGR	338				
Db	796	IPAILASSFGLLFCIFAPKCYIILLKPDQNTKGHMMGK	833				

RESULT 8
US-10-436-715-34
; Sequence 34, Application US/10436715
; Publication No. US20040018976A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING NOVEL HUMAN G-PROTEIN COUPLED RECEPTORS,
; TITLE OF INVENTION: AND SPLICE VARIANTS THEREOF
; FILE REFERENCE: D0262 NP
; CURRENT APPLICATION NUMBER: US/10/436,715
; CURRENT FILING DATE: 2003-05-13
; PRIOR APPLICATION NUMBER: U.S. 60/380,336
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 471
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 34
; LENGTH: 848
; TYPE: PRT
; ORGANISM: Carassius auratus
US-10-436-715-34

Query Match	39.7%;	Score 787.5;	DB 15;	Length 848;
Best Local Similarity	41.6%;	Pred. NO. 2.5e-62;		
Matches 139;	Conservative 78;	Mismatches 116;	Indels 1;	Gaps 1;
QY	1	LPHSVCTDVCPPGTRGFVQREPICCFDSIPCADGHVSRKPGERECEQCAGEDYWSNAQKS	60	
Db	510	VPVSVCSSESCPGTRKGVKGKPICCYDCIPCTEGEISNTTDSVTCLRCHQDFSNMQND	569	
QY	61	ECVLKEVEYLAYDEALGFTLVILSVFGAFVVLAVTAVVVIHRHTPLVNASDWQLGFLIQV	120	
Db	570	GCVKKETEFLSYEEIMGILLTTISLVGAFTIIIAVIFRYKXNTPIVKANNSLSFLLLF	629	
QY	121	SLIIMLLSSMLFIDKPHNWSMAGQVTLALGFSCLSCLLGKTSLSFLAYRISKSKTQLT	180	
Db	630	SLMLCFLCSLTFIGRPTEWSCLMRHTAPGITFVLCISCVLGKTIIVLMAFRATLPGSNVM	689	
QY	181	S-MHPLYRKIIVLISVLAIEIGICTAYLILEPPMVYKNMESQNTKIIILGCNEISIEBFLYSM	239	
Db	690	KWFGPPQORLSVFSFTLIQVIIICVLWLTIYPPPPFKNLNYFEKEKIIILECNVGSVVGFVAW	749	
QY	240	FGIDAFLLLCFLTTFVARQLPDNYEGKCITFGMLVFFPIIWMFSVPVYLSTGKPKPMVAV	299	
Db	750	LGYIGLLAILCFFLAFLARKLPDNFNEAKFITFSMLIFCAVWIAFIPAYVSSPGKFTVAV	809	
QY	300	EIFAILASSHGLLCIFAPKCLIIILLRPERNTSE	333	
Db	810	EVFAILASTYGMLCFIFIPKCYIILLKPDKNISK	843	

RESULT 9
 US-10-436-715-78
 ; Sequence 78, Application US/10436715
 ; Publication No. US20040018976A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bristol-Myers Squibb Company
 ; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING NOVEL HUMAN G-PROTEIN COUPLED RECEPTORS,
 ; TITLE OF INVENTION: AND SPLICE VARIANTS THEREOF
 ; FILE REFERENCE: D0262 NP
 ; CURRENT APPLICATION NUMBER: US/10/436,715
 ; CURRENT FILING DATE: 2003-05-13
 ; PRIOR APPLICATION NUMBER: U.S. 60/380,336
 ; PRIOR FILING DATE: 2002-05-14
 ; NUMBER OF SEQ ID NOS: 471
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 78
 ; LENGTH: 848
 ; TYPE: PRT
 ; ORGANISM: Carassius auratus
 US-10-436-715-78

Query Match	39.7%;	Score	787.5;	DB	15;	Length	848;	
Best Local Similarity	41.6%;	Pred.	No. 2.5e-62;					
Matches	139;	Conservative	78;	Mismatches	116;	Indels	1; Gaps	1;

QY	1	LPHSVCTDVCPPGTGRGVQREPICCFDSIPCADGHVSRKPGERECEQCAGEDYWSNAQKS	60
	:	: :: :: :	: :: :: :
Db	510	VFVSVCSESCPPGTRKGVKGPICCYDCIPCCTEGEISNTTDSVTCLRCHQDFWSNMQND	569
	:	: :: :: :	: :: :: :
QY	61	ECVLXEVEYLAYDEALGFLLVILSVFGAFVLAHTAVVYIHRHPTPLVNASDWQLGLFIQV	120
	:	: :: :: :	: :: :: :
Db	570	GCVKKEFEFLSYEEIMGILLTTISLVGAFTIIIAVIFFRYKNTPIVKANNSLSFLLLF	629
	:	: :: :: :	: :: :: :
QY	121	SLIIMLSSMLFIDKPHNWSMAGQVTLAIGFSCLCSLLGKTSSLPLAYRISKSTQLT	180
	:	: :: :: :	: :: :: :
Db	630	SMLCFLCSLTFIGRPTEWSCMLRHRTAFGITFVLCISCVLGKTIIVLMAFRATLPGSNV	689
	:	: :: :: :	: :: :: :
QY	181	S-MHPLYRKIIIVLISVLAETGICTAYLIILEPMMVYKNMESQNTKIILGCNEISIEFLYS	239
	:	: :: :: :	: :: :: :
Db	690	KWFGPPQORLSVFSTLIQIIVLCWLTIYPFPFPFKNLVPFKEKIIILECNVGSVVGFVA	749
	:	: :: :: :	: :: :: :
QY	240	FGIDAFLALLCFLLTFVARQLPDNYVEGKCITTFGLMVFFTIWMSFVVPVYSTKGFKMAV	299
	:	: :: :: :	: :: :: :

496	Db	PR	S	E	S	E	C	P	P	G	T	R	K	A	A	Q	K	R	P	F	C	C	Y	D	I	P	C	A	E	G	E	I	S	N	E	T	R	F	I	N	C	K	P	C	P	W	E	Y	S	N	A	E	K	N	K	555					
62	Qy	C	V	L	K	E	V	E	Y	L	A	D	E	A	L	G	F	T	L	V	I	L	S	V	F	G	A	F	V	L	A	V	T	A	V	V	I	H	R	H	T	P	L	V	N	A	S	D	W	Q	L	G	F	L	I	Q	V	S	121		
556	Db	C	V	L	K	A	V	E	F	L	S	T	E	I	M	G	V	V	L	V	F	S	L	F	G	V	G	L	T	L	L	V	A	I	L	F	Y	N	K	K	D	T	P	M	V	K	A	N	S	E	L	S	F	L	L	F	S	615			
122	Qy	L	I	M	L	S	S	M	L	F	I	D	K	P	H	N	W	S	C	M	A	G	O	V	T	L	A	L	G	F	S	L	C	S	L	L	G	K	T	S	S	L	F	L	A	Y	R	I	S	K	T	Q	L	T	S	181					
616	Db	L	T	L	C	F	L	C	S	L	T	F	I	G	R	P	T	E	W	S	C	M	L	C	H	T	A	F	G	I	T	F	V	L	C	I	S	C	V	L	G	K	T	I	V	L	M	A	F	K	A	T	L	P	G	N	I	M	K	675	
182	Qy	-	M	H	P	L	Y	R	K	I	I	V	L	S	V	L	A	E	I	G	I	C	T	A	Y	L	I	E	P	P	M	V	Y	K	N	M	S	E	S	Q	N	T	K	I	I	L	G	C	N	E	I	S	I	E	F	L	Y	S	M	F	240
676	Db	W	F	G	P	A	Q	R	L	S	V	A	F	T	L	I	Q	V	I	C	V	L	W	L	T	I	S	P	P	P	P	Y	K	N	M	K	Y	K	E	K	I	L	E	C	S	L	G	S	T	I	G	F	W	A	V	L	735				
241	Qy	G	I	D	A	F	L	A	L	C	F	L	T	T	F	V	A	R	Q	L	P	D	N	Y	E	G	K	C	I	T	F	G	M	L	V	F	E	I	I	W	M	S	F	V	P	V	L	S	T	K	G	K	E	K	M	A	V	E	300		
736	Db	T	Y	I	S	L	A	F	L	C	F	I	L	A	R	T	L	P	D	K	E	A	K	F	I	T	F	S	M	L	I	F	C	A	V	I	T	F	I	P	A	Y	V	S	S	P	G	K	E	T	V	A	V	E	795						
301	Qy	I	F	A	I	L	A	S	H	G	L	L	G	C	I	F	A	P	K	L	I	L	R	P	E	R	N	T	S	E	I	V	C	G	R	V	S	T	T	D	N	C	I	Q	347																
796	Db	I	F	A	I	S	S	F	G	L	L	F	G	I	F	A	P	K	C	Y	I	L	L	K	P	E	O	N	T	K	O	H	L	I	G	T	A	S	V	S	L	A	Q	842																	

RESULT 13
 US-10-436-715-77
 ; Sequence 77, Application US/10436715
 ; Publication No. US20040018976A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bristol-Myers Squibb Company
 ; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING NOVEL HUMAN G-PROTEIN COUPLED RECEPTORS,
 ; TITLE OF INVENTION: AND SPLICE VARIANTS THEREOF
 ; FILE REFERENCE: D0262 NP
 ; CURRENT APPLICATION NUMBER: US/10/436,715
 ; CURRENT FILING DATE: 2003-05-13
 ; PRIOR APPLICATION NUMBER: U.S. 60/380,336
 ; PRIOR FILING DATE: 2002-05-14
 ; NUMBER OF SEQ ID NOS: 471
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 77
 ; LENGTH: 844
 ; TYPE: PRT
 ; ORGANISM: Carassius auratus
 US-10-436-715-77

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RESULT 14
US-10-151-208-10
; Sequence 10, Application US/10151208
; Publication No. US20030105285A1
; GENERAL INFORMATION:
; APPLICANT: Ngai, John
; APPLICANT: Specia, David J.
; APPLICANT: Lin, David M.
; APPLICANT: Isaacoff, Ehud Y.
; APPLICANT: Dittman, Andrew H.
; APPLICANT: Fan, Jinhong
; TITLE OF INVENTION: Odorant Receptors
; FILE REFERENCE: B99-038-2
; CURRENT APPLICATION NUMBER: US/10/151,208
; CURRENT FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: US/09/619,353
; PRIOR FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 60/144,766
; PRIOR FILING DATE: 1999-07-20
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 854
; TYPE: PRT
; ORGANISM: Carassius auratus
US-10-151-208-10

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RESULT 15
US-10-436-715-31
; Sequence 31, Application US/10436715
; Publication No. US20040018976A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING NOVEL HUMAN G-PROTEIN COUPLED RECEPTORS
; TITLE OF INVENTION: AND SPLICE VARIANTS THEREOF
; FILE REFERENCE: D0262 NP
; CURRENT APPLICATION NUMBER: US/10/436,715
; CURRENT FILING DATE: 2003-05-13
; PRIOR APPLICATION NUMBER: U.S. 60/380,336
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 471
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 31
; LENGTH: 880

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; TYPE: PRT
; ORGANISM: Fugu rubripes
US-10-436-715-31

Query Match      37.9%; Score 753.5; DB 15; Length 880;
Best Local Similarity 41.9%; Pred. No. 3.1e-59;
Matches 139; Conservative 69; Mismatches 123; Indels 1; Gaps 1;

QY    1 LPHSVCTDVCPPGTGRGFVQREPICCFDSIPCADGHVSRRKPGERECEQCAGEDYWNSNAOKS 60
      : |||: : |||| : |||| | : ||| : | : ||| : | : ||| : | : ||| : | :
Db    538 VPLSVCSSICPPGTRKAIRPNYPICCHDCVVCTAGEISNOTDAIECARCLPEFWSNADRT 597

QY    61 ECVLKEVEYLAYDEALGFTLVILSVFGAFVLAVTAVVVIHRHTPLVNASDWQLGFLIQV 120
      || : ||: : : : : ||: : ||: : ||: : ||: : ||: : ||: : ||: : ||: :
Db    598 ACVPKQVEFLSFGDTIGIALLVVSLIGSFLTCAVALVFFVHRTSPIVRANNSDLSELLP 657

QY    121 SLIIMLLSSMLFIDKPHNWSMAGQVTIALGFSLCLSCLLGKTSSLFLAYRISKSTQLT 180
      || : | : || : |||| : |||: |||: |||: |||: |||: |||: |||: |||:
Db    658 SLTLCFLCSLTFISPSPSQWSCMLRHRTAFGITFVLCISCILGKTIIVLMFAFRATLPGSVM 717

QY    181 S-MHPLYRKIIIVLSVLAEGICTAYLILEPPMVYKNMESQNTKIILGCNEISIEFLYSM 239
      - : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
Db    718 KWFGPGKKQKAIITFSTLVQVVICTVWLVAAPTPTPRQYNPRESAIIIILLCDEGSTIAESLV 777

QY    240 FGIDAFALLCFLTTFVARQLPDNYEKGKITFGMLVFPIIWMSFPVYLSSTKGFKMAV 299
      - : || : || : || : || : || : || : || : || : || : || : || : || :
Db    778 LGYIGVLACMCFLAFLARKLPDNFNEARLIAFSMLIFCAWVAVFPAYISSIPGKYSTLT 837

QY    300 EIFAILASSHGLLGCIFAPKCLIILLRPENRT 331
      ||||| : ||||| : ||||| : ||||| : ||||| : ||||| : ||||| : |||||
Db    838 EIFAILASSYGLLGCIFAPKCYIILMKSEKNT 869
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